BRUHATH BENGALORE MAHANAGARA PALIKE

me of work:Improvements to roads and drains at Ambabhavani Layout (Part-2) In Ward .03

						Estimated Cost:60.00 Lkahs			
	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 142/ Item No. 19.1/ PWD SR 2018-19)**								
	Ambabhavani Layout								
	For RCC Drain								
	2nd Main road	2	206.00	1.10	1.00	453.20			
		1	134.00	1.10	1.00	147.40			
	For RCC Culvert								
	2nd Main road	1	5.40	2.00	1.00	10.80			
	For Asphalt road								
	9th cross	1	108.00	6.00	0.25	162.00			
	Cross road from 8th-12th cross	1	31.00	6.00	0.25	46.50			
		2	84.00	1.50	0.25	63.00			
						882.90	**Cum**	**207.60**	**183290.04**
	Basic Rate	130.00							
	Loading and Unloading	57.00							
	Lead For Earth 5km	12.80							
	Area Weightage 6%	7.80							
	Data Rate	**207.60**							
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 PWD SR 2018-19)**								
	Ambabhavani Layout								
	For RCC Drain								
	2nd Main road	2	206.00	1.10	0.15	67.98			
		1	134.00	1.10	0.15	22.11			
	For RCC Culvert								
	2nd Main road	1	5.40	2.00	0.15	1.62			
						91.71	**Cum**	**5509.33**	**505260.35**
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total	**5197.48**							
	Area Weightage 6%	311.85							
	Grand Total	**5509.33**							

	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm **(I No-37.59.2,P No-271 PWD SR 2018-19)**								
	Ambabhavani Layout								
	For Bottom Raft								
	For RCC Drain								
	2nd Main road	2	206.00	0.90	0.15	55.62			
		1	134.00	0.90	0.15	18.09			
	For RCC Culvert								
	2nd Main road	1	5.40	1.50	0.20	1.62			
	For Wall								
	For RCC Drain								
	2nd Main road	4	206.00	0.15	0.75	92.70			
		2	134.00	0.15	0.60	24.12			
	For RCC Culvert								
	2nd Main road	2	5.40	0.30	0.60	1.94			
						194.09	**Cum**	**7189.42**	**1395422.94**
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total	**6782.47**							
	Area Weightage 6%	406.95							
	Grand Total	**7189.42**							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3, **TMT Bars Fe-500(I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 65kg/Cum for RCC drain	1	190.53	65.00		12193.92			
	Consider 90kg/Cum for RCC Culvert	1	3.56	90.00		320.76			
						12.51	**Tonne**	**65046.90**	**814041.14**
	Issued rate	61365.00							
	Area Weightage 6%	3681.90							
	Data Rate	**65046.90**							
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.**(Data Rate)**								
	Ambabhavani Layout								
	For RCC Drain								
	2nd Main road	2	206.00	0.90		370.80			

	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
		1	134.00	0.90		120.60			
						491.40	**Sqm**	**2337.00**	**1148401.80**
	Data Rate	**2337.00**							
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. **(Data Rate)**								
	For RCC Culvert								
	2nd Main road	1	5.40	1.50		8.10			
						8.10	**Sqm**	**5418.00**	**43885.80**
	Data Rate	**5418.00**							
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No-147 Item no - 19.64 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00		648.00			
	Cross road from 8th-12th cross	1	31.00	6.00		186.00			
		2	84.00	1.50		252.00			
						1086.00	**Sqm**	**6.36**	**6906.96**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	**6.36**							
8	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 (Page No-158 Item no - 20.18 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00	0.20	129.60			
	Cross road from 8th-12th cross	1	31.00	6.00	0.20	37.20			
		2	84.00	1.50	0.20	50.40			
						217.20	**Cum**	**2001.28**	**434678.02**
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Data Rate	**2001.28**							
9	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications.MORTH Specification No. 502 (Page No-161 Item no - 21.6 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00		648.00			
	Cross road from 8th-12th cross	1	31.00	6.00		186.00			

	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
		2	84.00	1.50		252.00			
						1086.00	**Sqm**	**29.68**	**32232.48**
	As per Issue rate	28.00							
	Area Weightage 6%	1.68							
	Grand Total	**29.68**							
LO	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (Page No-160 Item no - 21.17.6 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00	0.05	32.40			
	Cross road from 8th-12th cross	1	31.00	6.00	0.05	9.30			
		2	84.00	1.50	0.05	12.60			
						54.30	**Cum**	**6407.70**	**347938.11**
	As per Issue rate	6045.00							
	Area Weightage 6%	362.70							
	Grand Total	**6407.70**							
11	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (Page No-161 Item no - 21.2 of KPWD SR 2018-19)								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00		648.00			
	Cross road from 8th-12th cross	1	31.00	6.00		186.00			
		1	84.00	7.00		588.00			
						1422.00	**Sqm**	**5.30**	**7536.60**
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	**5.30**							
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH (Page No-161 Item no - 21.7 of KPWD SR 2018-19).								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00		648.00			
	Cross road from 8th-12th cross	1	31.00	6.00		186.00			
		1	84.00	7.00		588.00			
						1422.00	**Sqm**	**12.72**	**18087.84**
	As per Issue rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	**12.72**							

	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
3	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4 % VG-30 Bitumen (P.No.162 & I.No.21.22.6 PWD 18-19)								
	For Asphalt road								
	Ambabhavani Layout								
	9th cross	1	108.00	6.00	0.04	25.92			
	Cross road from 8th-12th cross	1	31.00	6.00	0.04	7.44			
		1	84.00	7.00	0.04	23.52			
						56.88	**Cum**	**7355.34**	**418371.74**
	As per Issue rate	6939.00							
	Area Weightage 6%	416.34							
	Grand Total	**7355.34**							
								Total Construction Cost	**5356053.81**
								GST Charges 12%	**642726.46**
								Sub Total	**5998780.27**
								Utility Shifting,Miscellaneous and Rounding off	**1219.73**
								GRAND TOTAL	**6000000.00**
	Rupees Sixty Lakh(s) Only								

Certificate

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated. 01/07/2020
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.03

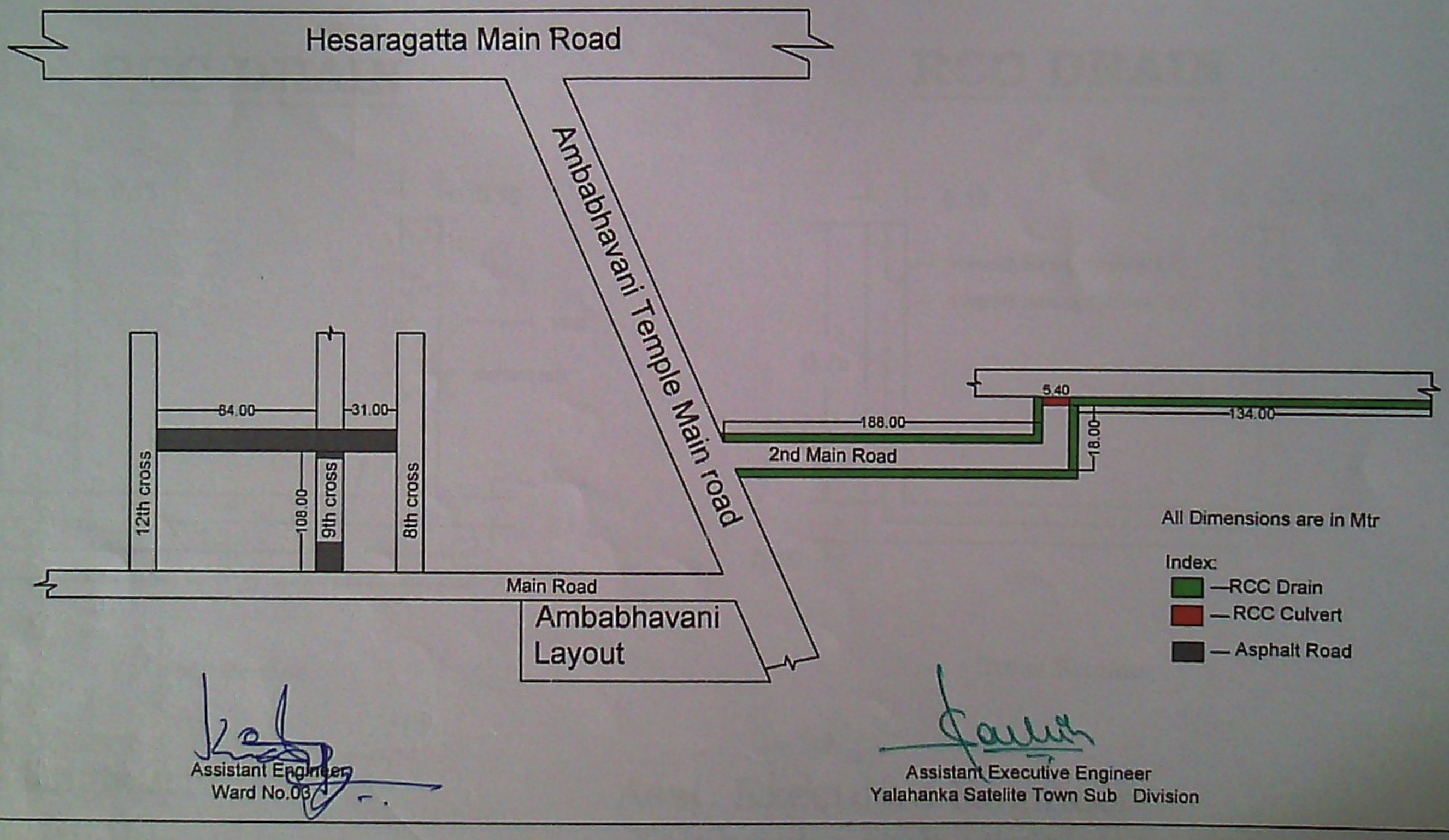
Asst. Executive Engineer
Yelahanka Satellite town Sub division

Executive Engineer
Yelahanka Division

Administrative Sanction for Rs. 60.00 lakhs
sixty lakhs only
is accorded under head P-2178
works sanctioned by DY mayor
Grants 2020-21
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No BBMP/YNK/51/2020-21 Dt. 17.11.2020

60,00,000/-
SIXTY LAKHS ONLY
P-2178
Job Co 003-21-000037
Registered as SE(Y)/TS/ 47 / 20-21 Subject
to conditions contained in enclosed memo
No 47 / 20-21 Dated: 26/11/2020
26/11
AE/JE TA (Yelahanka)

Name of work:Improvements to roads and drains at Ambabhavani Layout (Part-2) In Ward No.03

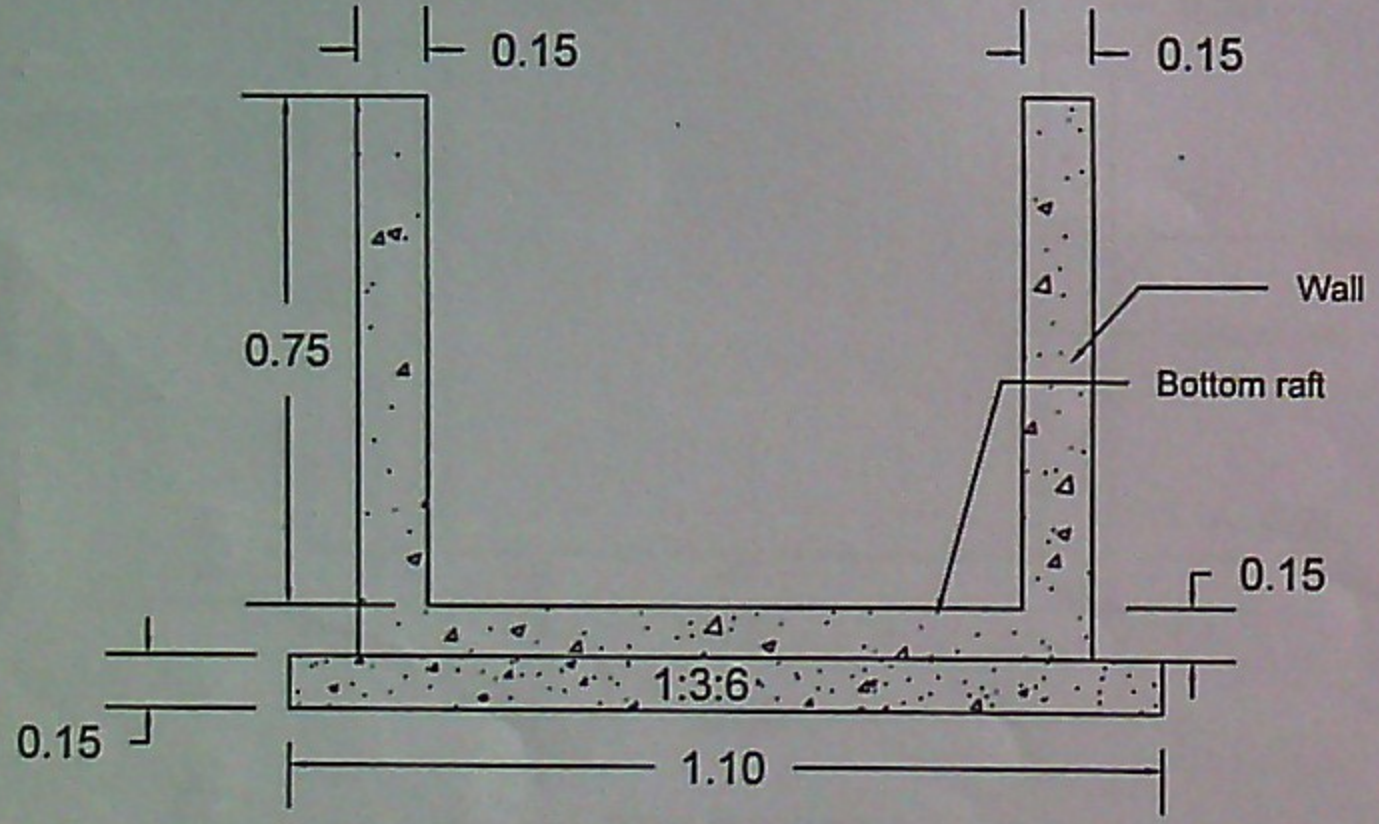


Assistant Engineer
Ward No.03

Assistant Executive Engineer
Yalahanka Satelite Town Sub Division

Name of Work:-Improvements To Roads And Drains At Ambabhavani Layout (Part-2) In Ward No.03

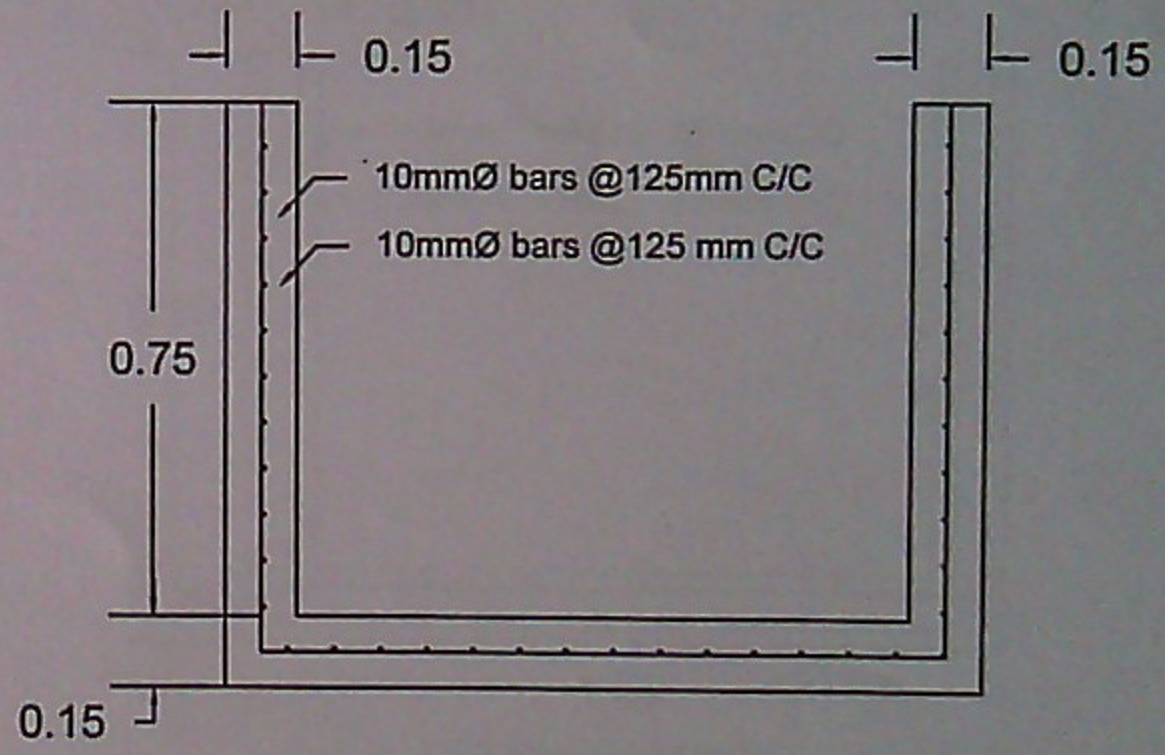
RCC DRAIN



Cross Section

Asst. Engineer
Ward No.03

RCC DRAIN



Cross Section

Asst. Executive Engineer
Yelahanka Sub Division

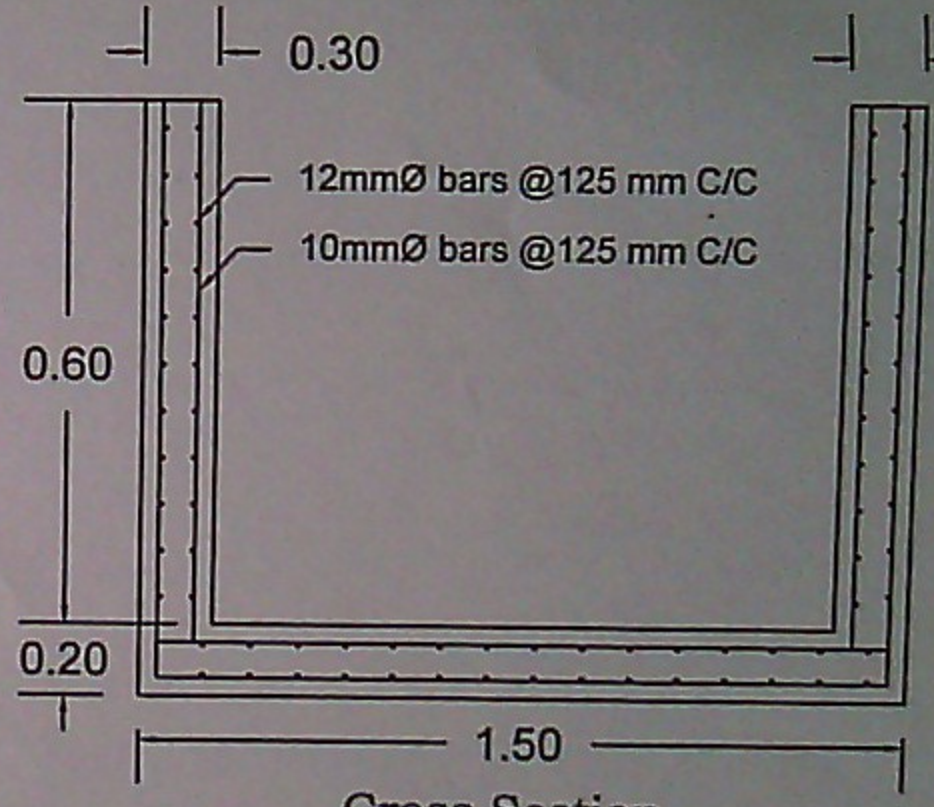
All Dimensions in Meters

Name of Work:-Improvements To Roads And Drains At Ambabhavani Layout (Part-2) In Ward No.03

RCC CULVERT

Cross Section

RCC CULVERT



Cross Section

Asst. Engineer
Ward No.03

Asst. Executive Engineer
Yelahanka Sub Division

All Dimensions in Meters